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Atty Docket No. 21074C-001120US

PTO FAX NO.: (703) 872-9306

ATTENTION: Examiner Brian J. Sines  
TELEPHONE NO.: (571) 272-1263

Group Art Unit 1743

**OFFICIAL COMMUNICATION**  
**FOR THE PERSONAL ATTENTION OF**  
**EXAMINER Brian J. Sines, Ph.D.**

**CERTIFICATION OF FACSIMILE TRANSMISSION**

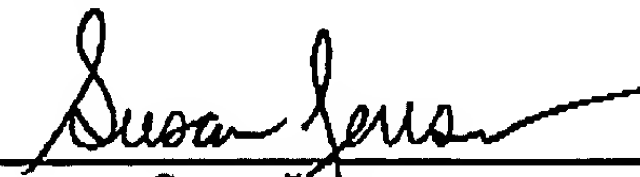
I hereby certify that the following document(s) in re Application of QUAKE et al., Application No. 09/724,548, filed November 28, 2000 entitled INTEGRATED ACTIVE FLUX MICROFLUIDIC DEVICES AND METHODS is being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Document(s) Attached

1. Transmittal Form (1 pg); and
2. Communication (2 pgs)

Number of pages being transmitted, including this page: 4

Dated: May 24, 2005

  
Susan Jensen

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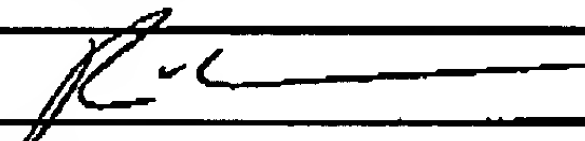
TOWNSEND and TOWNSEND and CREW LLP  
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San Francisco, CA 94111-3834  
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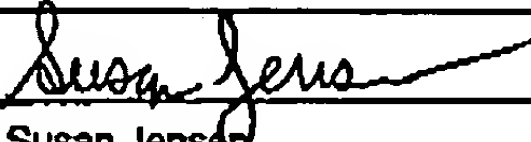
60499533 v1

PTO/SB/21 (09-04)

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	09/724,548
	Filing Date	November 28, 2000
	First Named Inventor	Quake, Stephen R.
	Art Unit	1743
	Examiner Name	Sines, B. J.
	Attorney Docket Number	20174C-001120US
Total Number of Pages in This Submission	3	

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Communication (2 pgs)
Remarks		The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Townsend and Townsend and Crew LLP		
Signature			
Printed name	Randolph Ted Apple		
Date	May 24, 2005	Reg. No.	36,429

CERTIFICATE OF TRANSMISSION/MAILING			
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Signature			
Typed or printed name	Susan Jensen	Date	05/24/2005

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PATENT  
Attorney Docket No.: 20174C-001120US  
Client Ref. No.: CIT 3153

TOWNSEND and TOWNSEND and CREW LLP

By: Susan Jensen  
Susan Jensen

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Stephen R. Quake et al.

Application No.: 09/724,548

Filed: November 28, 2000

For: INTEGRATED ACTIVE FLUX  
MICROFLUIDIC DEVICES AND  
METHODS

Customer No.: 20350

Confirmation No. 8333

Examiner: Brian J. Sines

Technology Center/Art Unit: 1743

COMMUNICATION

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This is a Communication related to the Amendment filed May 16, 2005, in response to the final Office Action in the above-referenced application. Applicants wish to clarify a statement made in the Remarks section of that amendment. The amendment (page 12) stated " . . . the Lipshutz [pat. No. 6,043,080] device requires that reagents be mixed by repeatedly pulling and pushing the mixture to and from the storage chamber 510 (col. 20, lines 58-63), or by using acoustic or ferromagnetic means (col. 25, line 36-col. 26, line 17)." However, the undersigned has become aware that the '080 patent specification has numerous references to "mix," "mixing" or grammatical variants, and that mixing is not limited specifically to pulling and pushing the mixture to and from the storage chamber, acoustic and ferromagnetic means. For example, the '080 specification refers to mixing at (but not limited to) col. 2, lines 52-55; col. 3, lines 43-50; col. 7, lines 57-60; col. 20, line 42 to col. 21, line 13; col. 25, line 36 to col. 26,

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Communication dated May 24, 2005  
Page 2 of 2

PATENT  
Attorney Docket No.: 20174C-001120US


line 65; col. 27, line 64 to col. 28, line 17; col. 28, lines 31-49; col. 29, lines 19 to 48; and  
col. 31, lines 22-56.

### CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application  
are in condition for allowance and an action to that end is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this  
application, please telephone the undersigned at 650-326-2400.

Respectfully submitted,

  
Randolph Ted Apple  
Reg. No. 36,429

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